ABSTRACT OF THE DISCLOSURE

In a digital telecommunication receiver, one or more of a synchronization technique, a channel model, a channel estimation technique, and/or an equalization technique are selected in order to optimize the training sequence being used and eliminate distortions introduced by the receiver architecture. A combination of synchronization technique (e.g., standard correlation technique; center of gravity synchronization technique), channel model (e.g., standard channel model; channel model including a DC component) and number of channel taps *L* is selected to optimize the estimation characteristics for the training sequence being used in the telecommunication system.